

STATE OF NORTH CAROLINA, DEPARTMENT OF ADMINISTRATION		
DIVISION OF PURCHASE AND CONTRACT		
116 West Jones Street, Raleigh, NC 27603-8002		
Term Contract	070J	50,000 GVWR, Cab & Chassis/Dump Truck
Effective Dates	January 1, 2014 through December 31, 2016-Non-Renewable	
Bid Number	201301537	
Administrator	Christ Tart	
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Last Updated	August 25, 2014	

a. General Information

SCOPE: The scope of this contract is intended to cover the State's normal requirements for dump trucks as specified herein for use by all State Agencies, Institutions, and all Public Schools except those exempt by Statute noted herein. As per House Bill 490, Community Colleges have the flexibility to not use this contract if they can locate the item(s) that is the same or substantially similar in quality, service, and performance as items available under State term contracts and the delivered price is less than that on term contract with all features, terms, and conditions being the same.

NON-STATE AGENCIES ELIGIBLE TO PARTICIPATE IN THIS CONTRACT

In accordance with North Carolina General Statutes, certain non-state entities described below, may participate in this contract on a voluntary basis. Any of the non-state entities that choose to participate in this contract must abide by the terms and conditions that are set forth in this contract.

Nonprofit corporations operating charitable hospitals, local nonprofit community sheltered workshops or centers that meet standards established by the Division of Vocational Rehabilitation of the Department of Health and Human Services, private nonprofit agencies licensed or approved by the Department of Health and Human Services as child placing agencies, residential child-care facilities, private nonprofit rural, community, and migrant health centers designated by the Office of Rural Health and Resource Development, private higher education institutions, counties, public school units, cities, towns, governmental entities, volunteer fire departments, rescue squads, and other subdivisions of the State and public agencies thereof.

2. Scope of Contract

This contract is intended to describe a 50,000 GVWR straight truck with, conventional single cab and crew cab, chassis that will typically be used by NCDOT and other authorized users of this contract (NON-NCDOT) in a variety of construction and maintenance dump truck operations, including snow removal and other similar on/off road applications.

3. Taxes

Prices or Discounts shown herein do not include any North Carolina sales or use taxes.

4. Abnormal Quantities

Any agency requirement that exceeds 10 units must be forwarded to the Division of Purchase and Contract for processing. The Division, at its sole discretion, may process any such requirement in one of the following ways:

1. Purchase may be authorized at the current level of pricing with the current contract vendor(s)
2. Additional discounts from the current level of pricing may be negotiated with the current contract vendor(s)
3. A separate Invitation for Bids may be issued for the requirement

5. Minimum Orders

This contract will be for a minimum order of one unit for any single order.

6. Placement of Orders

Orders will be placed throughout the contract period on an as-needed basis for the quantity required at the time, and will be issued directly to the respective contractor(s) or their designated suppliers. Contract changes, if any, over the life of the contract are implemented by contract addenda released by the Contract Administrator to the contractor. If the contractor is accepting orders and/or delivering through other parties, for example a manufacturer accepting orders and delivering through a dealer network or dealers receiving orders through a network of other dealers, then it is the responsibility of the contractor to apprise such parties of all such contract addenda.

7. Delivery

Production of new engines is anticipated in June 2010. Delivery should be within 60 days after this date. Due to EPA engine requirements, ordering agency should confirm delivery dates prior to placing order .

In the event the delivery is not received within the contract delivery period, the contractor may be held in default in accordance with paragraph 1, DEFAULT AND PERFORMANCE BOND in the North Carolina General Contract Terms and Conditions, and the state may procure the articles or services from other sources and hold the contractor responsible for excess cost occasioned thereby. Delivery will be made from Garland TX

8. Transportation Charges

All goods shall be delivered FOB DESTINATION when the "order value" is one unit or more, when shipped to a single destination. Transportation charges invoiced for orders equal to or more than this "order value" may be cause for removal of the contractor from the contact.

NOTE: If the contractor makes partial shipments of an order equal to or more than this "order value" to one destination, all shipments of the order shall be sent FOB DESTINATION with NO additional transportation charges added.

Note! All shipments should be inspected for damage immediately upon receipt.

9. Item Pricing Information-

Placement of Orders

Orders will be placed throughout the contract period on an as-needed basis for the quantity required at the time, and will be issued directly to the respective contractor. Contract changes, if any, over the life of the contract are implemented by contract addenda released by the Contract Administrator to the contractor. If the contractor is accepting orders and/or delivering through other parties, for example a manufacturer accepting orders and delivering through a dealer network or dealers receiving orders through a network of other dealers, then it is the responsibility of the contractor to apprise such parties of all such contract addenda.

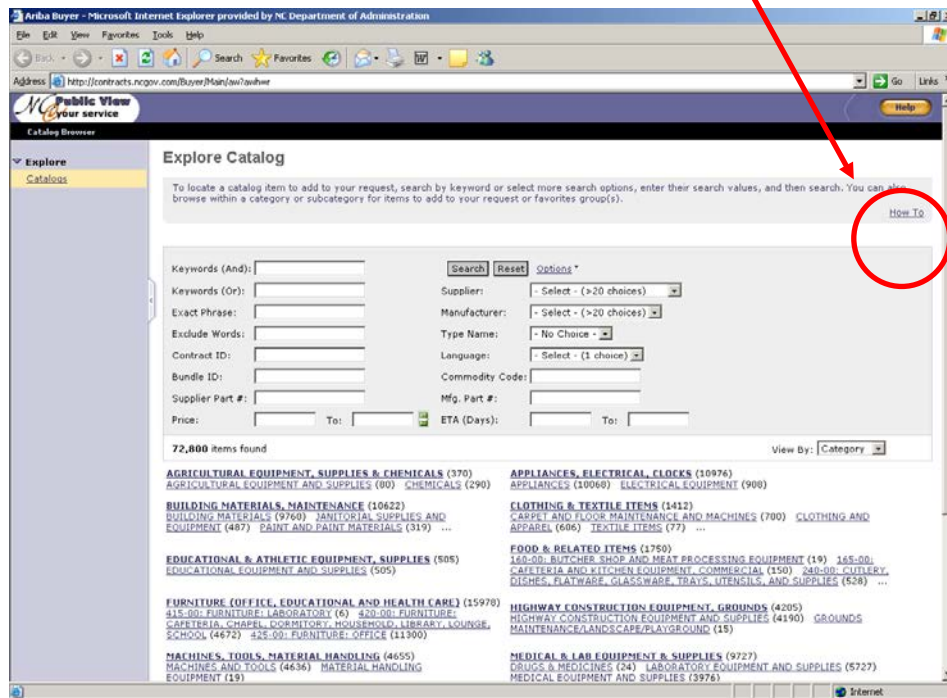
Order Placement Via E-Procurement (Catalog Items)

- a. Click on the following link: [E-Procurement Users](#)
- b. When placing an order in the e-procurement system, the very first thing to do is to go to the catalog tab and select options. After you have selected options, select contract ID. In the contract ID space type in the contract ID number, 070Q.
- c. Please make sure the keywords space is blank and the contract ID is typed in the contract ID section.
- d. After selecting the contract ID and to narrow the search to a particular manufacturer select the manufacturer from the drop down
- e. When the item to be ordered has been located complete the requisition and issue the purchase order.

Non E-Procurement Users:

The E-Procurement Public View will be the only place for Non E-Procurement Users to view the item/pricing information.

- a. Click on the following link: [E-Procurement Public View](#)
- b. For online assistance regarding item searching; click on the “How to” underlined link located near the upper-right hand corner.



10. Price Lists and Catalogs

The successful contractor must furnish descriptive literature to any agency within seven (7) consecutive days after request of the agency. Failure to comply with these requirements may subject the contractor to removal from the contract.

11. Contractors

All known minority, women and disabled owned businesses, as well as disabled business enterprises and nonprofit work centers for the blind and severely disabled, including dealers, will be identified with "Minority owned" "Woman owned", "Disabled Owned", "DBE" or "BSD" as appropriate after the vendor number. This is being done in an effort to recognize these businesses and to encourage and promote their use to the greatest extent permitted by law.

When more than one supplier is listed for a particular item, selection should be made, whenever possible, from any of the groups identified above, consistent with agency needs and price considerations.

Contractor Name	Address / Federal ID	City, State, Zip	Contact, Phone, Fax, E-mail
Transource, Inc.	8808 Midway West Road	Raleigh, NC 27617	Rob Shaw 919-782-8785 919-571-1197 (Fax) Rob.shaw@tsource.com

12. WARRANTY:

Each unit is to be warranted bumper to bumper, for a minimum period of one year from date accepted and made ready for operations, regardless of mileage. The warranty shall cover all parts, labor and delivery of parts. In addition, there shall be an extended warranty of two additional year or a total of 150,000 miles on the drive train (engine, transmission and rear axle) whichever comes first. There shall be no reduction (prorating) of coverage resulting from age or mileage during the warranty period. In addition, any specific provisions in the manufacturer's standard warranty that exceed the above requirement become part of the warranty for this contract.

Any periodic inspections, which may be required and performed by the vendor or his representative, shall be without charge to the owner.

13. Substitutions

Substitutions are not permitted without prior approval of the Division of Purchase and Contract. Failure of the contractor to comply with this requirement may result in the removal of the contractor from the contract.

a. Additional Information

TRAINING: Training is required and the successful vendor shall provide a qualified representative to instruct the owners operators in the proper operation, routine maintenance, safety and service at time of delivery. .

Ordering agencies are strongly encouraged to confirm specifications with the vendor prior to placing the order.

TRUCK, CAB & CHASSIS, DIESEL ENGINE POWERED, 50,000 GVWR

FURNISH AND DELIVER:

A straight truck, tandem axle cab and chassis will be furnished in accordance with the attached specifications & questionnaire. Units shall be furnished with the published standard equipment whether specified or not.

SPECIAL NOTE:

No minimum or maximum number of units to be purchased is guaranteed. **The delivery schedule will be finalized with the successful bidder when a purchase order is issued.**

ITEM	QTY.	UOM	DESCRIPTION	UNIT COST	TOTAL EXTENDED COST
1.	1	Each	Truck, Dump, Tandem Axle Chassis with Manual Transmission MFR. <u>Mack</u> MODEL <u>GU713</u>	\$ <u>91,995</u> ⁰⁰	\$ <u>91,995</u> ⁰⁰
2.	1	Each	Truck, Dump, Tandem Axle Chassis with Automatic Transmission MFR. <u>Mack</u> MODEL <u>GU713</u>	\$ <u>103,995</u> ⁰⁰	\$ <u>103,995</u> ⁰⁰
3.	1	Each	Truck, Dump, Tandem Axle Chassis with one Lift Axle and Manual Transmission MFR. <u>Mack</u> MODEL <u>GU713</u>	\$ <u>98,595</u> ⁰⁰	\$ <u>98,595</u> ⁰⁰
4.	1	Each	Truck, Dump, Tandem Axle Chassis with one Lift Axle Automatic Transmission MFR. <u>Mack</u> MODEL <u>GU713</u>	\$ <u>108,895</u> ⁰⁰	\$ <u>108,895</u> ⁰⁰
5.	1	Each	Truck, Dump, Tandem Axle Chassis with Two Lift Axle Manual Transmission MFR. <u>Mack</u> MODEL <u>GU713</u>	\$ <u>104,895</u> ⁰⁰	\$ <u>104,895</u> ⁰⁰
6.	1	Each	Truck, Dump, Tandem Axle Chassis with Two Lift Axle Automatic Transmission MFR. <u>Mack</u> MODEL <u>GU713</u>	\$ <u>114,995</u> ⁰⁰	\$ <u>114,995</u> ⁰⁰

TOTAL ALL ITEMS \$ 623,370⁰⁰

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November 5, 2013

TANDEM AXLE, TRUCK CHASSIS

GENERAL: NCDOT will typically use these units in a variety of construction and maintenance operations including snow removal. The vendor is reminded that the dimensions given below are minimums except where otherwise stated. The warranty shall also include coverage of these units while in typical snow removal operation. **Bidders are requested to submit two copies of detailed descriptive literature and other pertinent data as required by Par. 9 of the attached "Instructions to Bidders."**

REQUESTED

OFFERED

1. **Type:** Chassis with conventional cab for heavy-duty on-off road service, typically to be used as a dump truck in snow removal, road construction and maintenance operations.

a. Manufacturer:

MAC

b. Chassis Model:

GU713

c. Year Model:

2015

2. **GVWR:**

- a. Shall be a minimum of 58,000 lbs.

58,000 Lbs.

- b. Chassis weight on front axle.

9323 Lbs.

- c. Chassis weight on rear tandem.

8546 Lbs.

- d. Weight of cab & chassis including lubricant and full load of fuel.

18789 Lbs.

3. **Axle Spacing:**

- a. Center of front axle to center of rearmost axle of tandem, shall be a minimum of 20 feet to meet NC Bridge Formula definitions.

20.25" Ft/Ins.

BIDDER: TRANSWARE, INC

4. **Usable CT:** Usable CT is defined as clear usable space outside of chassis rails from behind cab, DPF or exhaust, whichever extends the furthest towards the rear, to the center of the tandem. Under-slung air tanks or other components are not to protrude outside of the chassis rails in the defined area.

a. Usable CT requested to be 126", ± 2 ". Usable CA 129" Inches

Tandem models have side mount exhaust to cab. Currently on existing machs for NCDOT. No changes since last order.

5. **Wheelbase:**

a. Wheelbase shall be appropriate for the axle and CT dimensions required. Tandem spec 216" Ft/Ins.

6. **Frame:**

a. Minimum resisting bending moment of 2,590,000 inch/lbs. per frame rail. 3,580,000 In/Lbs.

b. Minimum 21.60 section modulus. 29.8 cu in SM

c. Minimum 120,000 PSI rated 120,000 PSI

d. Full height frame, approximately 10 inches in height, is to protrude beyond grill/radiator and be of sufficient strength for plowing operations. Yes ☒ No ☐

e. Front frame extensions are not necessary so long as the frame protrudes beyond the grill/radiator as described in "d" above. If extensions are supplied they must be integral and not be bolted/added on. Yes ☒ No ☐

f. Spring hanger assemblies shall not interfere with attaching the bumper push plates to inside of truck frame rails. The first 6 inches (approximately), of the inside web and flanges of the chassis rails are to be clear to allow attachment of the bumper push plates to the inside of the chassis rails. Yes ☒ No ☐

g. Give dimension of clear inside frame rail offered, as described in "f" above. 6 Inches

7. Springs and Suspension:

- a. Front and rear suspension shall meet or exceed the requirements for GVWR. Yes ☒ No ☐
- b. Rear suspension to be a Hendrickson RTE 2-400 with bronze center bushings or approved equal. Yes ☒ No ☐
- c. Rear suspension offered. includes Hendrickson RTE 400 → option MACK camelback suspension
- d. Front spring capacity. 18,000 Lbs. DEDUCT \$1150 per unit
- e. Rear spring capacity. 40,000 Lbs.

8. Front Axle:

- a. Front axle shall be a minimum 18,000 lbs. rated capacity. 18,000 Lbs.
- b. Set forward axle with shock absorbers. Yes ☒ No ☐
- c. Wheel bearings oil bath type with synthetic lubricant. Yes ☒ No ☐ exceeds
MACK FXL18 - permanently sealed, no maintenance required. CURRENTLY ON MACKS NC DOT

9. Rear axles: Eaton DS402P, Meritor RT-40-145P with automatic power divider or approved equal is acceptable as long as axles meet the following:

- a. Rear tandem shall be a minimum 40,000 lbs. rated capacity. 40,000 Lbs.
- b. Heavy duty rear axle housing with iron rear axle carrier. Yes ☒ No ☐
- c. Single speed tandem (single gear ratio). Yes ☒ No ☐
- d. Spacing from center to center of the axles of the tandem to be approximately 54 inches. 54" Ins.
- e. Spacing of the axles of the tandem shall provide enough clearance to allow for snow chains to be run on both axles with the tires specified in this bid. Yes ☒ No ☐
- f. Axle ratio provided is to be properly matched for engine RPM, tire size and transmission offered to maintain 65 MPH ± 2 MPH at a maximum GVW on level ground. Yes ☒ No ☐ with Allison TR 4.80
- g. Axle ratio. 3.98
- h. Differentials filled with synthetic lubricant. Yes ☒ No ☐

10. **Lift Axle(s)**: When required under "Furnish and Deliver", the cab and chassis shall be equipped with additional lift axle(s) that shall meet the following:

- a. Shall be installed by chassis manufacturer. Yes ☒ No ☐
- b. 255/70-22.5 hub piloted steel disk, with "H" tire load range Yes ☒ No ☐
- c. Steerable. Yes ☒ No ☐
- d. Air activated from cab. Yes ☒ No ☐
- e. Automatic lift in reverse. Yes ☒ No ☐
- f. Rated for up to 13,200 lbs. 13,500 Lbs.
- g. Lift axle manufacturer. Hendrickson
- h. Lift axle model. ComposiLife 2 series

10A. **Chassis with (1) lift axle**: Usable CT requirement does not apply.

- a. GVWR shall be a minimum of 64,000 lbs. 71,500⁰⁰ Lbs.
- b. Chassis weight on front axle. 9478 Lbs.
- c. Chassis weight on rear tandem. 9451 Lbs.
- d. Weight of cab & chassis including lubricant and full load of fuel. 19,849 Lbs.
- e. Axle spacing from center of chassis front axle to center of rearmost axle of tandem, shall be a minimum of 23 feet to meet NC Bridge formula definitions. 23'.25" Ft/Ins.
- f. Spacing from center line of lift axle to center line of rear axle of the tandem to be a minimum of 98 inches. 102" Ins.

10B. Chassis with (2) lift axles: Usable CT requirement does not apply.

- a. GVWR shall be a minimum of 70,000 lbs. 85,000 Lbs.
- b. Chassis weight on front axle. 9602 Lbs.
- c. Chassis weight on rear tandem. 10,140 Lbs.
- d. Weight of cab & chassis including lubricant and full load of fuel. 20,932 Lbs.
- e. Axle spacing from center of chassis front axle to center of rearmost axle of tandem, shall be a minimum of 25 feet to meet NC Bridge formula definitions. 25.25 Ft/Ins.
- f. Spacing from center line of lift axle to center line of rear axle of the tandem to be a minimum of 146 inches. 150 Ins.

11. Brakes:

- a. Full air "S" Cam. Yes ☒ No ☐
- b. Low air warning buzzer and light. Yes ☒ No ☐
- c. Non asbestos shoes. Yes ☒ No ☐
- d. Desiccant type air dryer, Midland Pure Air Plus or pre-approved equal. Yes ☒ No ☐
- e. Automatic slack adjusters. Yes ☒ No ☐
- f. Minimum 15.5 CFM compressor. 18.7 CFM
- g. Parking brake on front and rear axle of tandem. Yes ☒ No ☐
- h. Dust shields on all axles. Yes ☒ No ☐
- i. Brakes shall conform to FMVSS in effect at time of production. Yes ☒ No ☐
- j. Minimum 16 1/2 inches x 6 inches front. 16 1/2 x 6
- k. Minimum 16 1/2 inches x 7 inches rear. 16 1/2 x 7
- l. Outboard mounted drums on both axles. Yes ☒ No ☐

- m. Full trailer air package required with glad hands installed at end of chassis rails. Yes ☒ No ☐
- n. Rear brake chambers shall not to extend past radius of rear tires. Yes ☒ No ☐
- o. The brake air tank shall have a manual drain valve with a lanyard attached to the outside of chassis rail. Yes ☒ No ☐
- p. ABS system shall be manufacturer's standard Bendix or Meri and must be compatible with all manufacturers of trailer brakes. Yes ☒ No ☐
- q. ABS manufacturer. Bendix
- r. ABS model. Bendix w/ traction control
- s. Air brake ABS, full vehicle wheel control system with Automatic Traction Control. Yes ☒ No ☐

12. Batteries:

- a. Battery box and battery mounts designed for on/off road applications. Yes ☒ No ☐
- b. Minimum of 1900 CCA at zero (0) degrees F. Yes ☒ No ☐
- c. Hold down clamps and terminals treated with corrosion resistant substance. Yes ☒ No ☐
- d. Batteries and cables to comply with TMC105. Yes ☒ No ☐
- e. 2 remote jump start terminals, battery side mounted with color coded covers. Yes ☒ No ☐
- f. Shall have a master lever type electrical disconnect switch (keyed) on battery side of truck, protected from road splash accessible from the ground. Yes ☒ No ☐
- g. Manufacturer's standard battery box cover. Yes ☒ No ☐

13. **Alternator:**

- a. Delco 24SI Quadramount or approved equal. Yes ☒ No ☐
- b. Minimum 145 amp. 145 AMP
- c. Alternator manufacturer. Delco
- d. Alternator model. 12V 145 AMP (24SI) Brush-type

14. **Engine Performance:** The following performance is requested when fully loaded as determined by SAE J688. Rated horsepower and torque shall be sufficient so that when coupled with the proposed transmission and rear axles, the unit will meet the performance criteria listed below:

- a. Full diesel, electronic engines, minimum six (6) cylinders. Yes ☒ No ☐
- b. Shall be SAE J1349 rated. Yes ☒ No ☐
- c. Minimum rated torque 1550-lbs/ft. Yes ☒ No ☐
- d. Shall have 20% startability at maximum GVWR to start and climb 20% grade (startability @ clutch engagement) Yes ☒ No ☐
- e. Shall have a minimum 2% gradeability at maximum GVWR at 55 MPH. Yes ☒ No ☐
- f. Shall maintain a minimum top speed of 65 MPH (± 2 MPH) at maximum GVW on level ground. Yes ☒ No ☐
- g. Bidder shall include truck performance analysis sheet(s) indicating the truck performance criteria as described above. Yes ☒ No ☐
- h. Engine manufacturer. Mack
- i. Engine model. MP7
- k. Number of cylinders 6
- l. Engine displacement 10.8 L
- m. Net HP 395 @ 1500-1700 RPM
- n. Peak torque 1560 lbs/ft. @ 1100-1200 RPM

14A. Engine Requirements Continued:

- a. Emissions control system shall meet Federal and NC state Emission regulations at time of delivery.
- PM—0.01 g/bhp-hr
 - NOx—0.20 g/bhp-hr
 - NMHC—0.14 g/bhp-hr
- Yes ☒ No ☐
- b. A copy of the most recent EPA certificate for 2013 Emission is requested with this bid.
- Yes ☒ No ☐
- c. 110 V thermostatically controlled engine block heater properly sized for the engine proposed with weatherproof receptacle mounted under left door (Driver side).
- Yes ☒ No ☐
- d. Shall have cold weather starting aid, compatible with the engine furnished.
- Yes ☒ No ☐
- e. Shall have engine air intake arranged to eliminate the induction of blowing snow during snow removal operations.
- Yes ☒ No ☐
- f. Shall have thermostatically controlled fuel heater.
- Yes ☒ No ☐
- g. Shall have on board primer for the fuel system.
- Yes ☒ No ☐
- h. Shall have all provisions for front engine crankshaft driven hydraulic PTO system.
- Yes ☒ No ☐
- i. Bidder shall provide and install the plate adapter to harmonic balancer for the front mounted pump applications.
- Yes ☒ No ☐
- j. Shall be compatible for use with B-20 Bio-Diesel fuel.
- Yes ☒ No ☐
- k. Shall have a fuel water separator.
- Yes ☒ No ☐
- l. Shall have full flow, spin on type engine oil filter.
- Yes ☒ No ☐
- m. Engine parameters set to allow infinite engine idle time.
- Yes ☒ No ☐
- n. Must have corrosion resistant oil pan.
- Yes ☒ No ☐

15. Engine Brake:

- a. Shall be a compression type or approved equal, compatible with the engine and transmission furnished. Yes ☒ No ☐
- b. Engine brake manufacturer. MACK
- c. Engine brake model. Power/Leash

16. Exhaust:

- a. Shall be a vertical stack with horizontal muffler not to extend above cab roof and not to interfere with dump body installation. A turnout exhaust stack is required (rain cap not acceptable). Yes ☒ No ☐

17. Fuel Tank:

- a. Single fuel tank, minimum 80 gallons. 88 Gallons
- b. Fuel tank to be aluminum, aluminized-steel not acceptable. Yes ☒ No ☐
- c. Shall conform to all applicable SAE Standards. Yes ☒ No ☐
- d. Request left side mounted. Yes ☒ No ☐

18. Air Cleaner:

- a. Dry type, with rated air flow for engine offered with filtration efficiency of 99.5% for all engine speeds. Yes ☒ No ☐
- b. In cab direct reading air restriction indicator. Yes ☒ No ☐

19. Cooling System:

- a. Cooling system conforming to SAE J1393, ASTM Standards and manufacturer recommendations for on-off road application. Yes ☒ No ☐
- b. Shall have manufacturer's suggested coolant type. Yes ☒ No ☐

20. Gauges: Shall include manufacturer's standard gauge package, including the following gauges as a minimum:

- | | | |
|---|---|-----------------------------|
| a. Dial type oil pressure. | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| b. Dial type temperature. | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| c. Dial type voltmeter. | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| d. Dial type fuel. | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| e. Dial type air pressure. | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| f. Dial type tachometer. | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| g. Hour meter. | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| h. Audible and visual alarm for high water temperature. | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| i. Audible and visual alarm for low oil pressure. | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |

21. Manual Transmission: (when required under "Furnish and Deliver")

- | | | |
|---|---|-----------------------------|
| a. Ten (10) speed wide ratio. | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| b. Minimum torque capacity of 1550 lbs/ft. | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| c. Fuller FRO-15210C or approved equal, properly matching engine and axle ratio. | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| d. Shall allow easy downshifting to lower gears without bringing vehicle to stop. | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| e. Furnished with synthetic transmission lubricant. | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| f. Transmission manufacturer. | <u>Fuller</u> | |
| g. Transmission model. | <u>FRO-15210C</u> | |
| h. Torque capacity. | <u>1560</u> lbs/ft. | |

22. Clutch:

- a. Minimum 15 1/2 inches. 15 1/2" Inches
- b. Minimum 2 plate. 2 Plates
- c. An extended lube line for the clutch release bearing is required. Yes ☒ No ☐
- d. Clutch manufacturer. EATON
- e. Clutch model. Advantage F2-Pedal

23. Automatic Transmission: (when required under "Furnish and Deliver")

- a. Fully automatic, six (6) speed. Yes ☒ No ☐
- b. Allison World Transmission 4500 RDS for on/off road. Yes ☒ No ☐
- c. Transmission control shall be push pad, dash mounted shifter. Yes ☒ No ☐
- d. Oil level sensor. Yes ☒ No ☐
- e. Transmission shall be equipped with auto-neutral feature to be activated when parking brake is applied to command the transmission to neutral, regardless of range selection. Yes ☒ No ☐
- f. Furnished with synthetic transmission lubricant. Yes ☒ No ☐
- g. Transmission manufacturer. Allison
- h. Transmission model. 4500 RDS
- i. Torque capacity. 1560 lbs/ft.
- j. Allison transmission electronic control module shall be Relocated to inside the cab to minimize exposure to corrosive elements. Yes ☒ No ☐

BIDDER: TRANSOURCE Inc

24. Windshield Wipers:

- | | | |
|---------------------------|---|-----------------------------|
| a. Electric, dual wipers. | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| b. Intermittent action. | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| c. Dual washers. | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |

25. Wheel Rims:

- | | | |
|---|---|-----------------------------|
| a. Steel disc type wheels, 10 hole. | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| b. Hub piloted. | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| c. Front rims 9.00 inches wide. | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| d. Rear rims 8.25 inches wide. | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| e. Rims shall conform to Tire & Rim Association guidelines. | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| f. Rims shall be Manufacturer's standard White. | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| g. Rim manufacturer. | <u>HAYES LEMMERZ</u> | |

26. Front Tires:

- | | | |
|---|---|-----------------------------|
| a. 315/80R22.5 steel belted radial. | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| b. Load Range I (20 Ply) | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| c. Premium highway treads. | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| d. Michelin XDN2, or Good Year G291, or <u>approved equal</u> . | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| e. Tire manufacturer. | <u>Bridgestone</u> | |

If different from above:

- | | |
|---------------------|---|
| a. Tire size. | <u>5Tne</u> |
| b. Tire load range. | <u>5Tne</u> |
| c. Tire model. | <u>M 860A - CURRENTLY ON LAST MACHS purchased
NCDOT</u> |

BIDDER: Transource Inc

27. Rear Tires:

- a. 11R22.5 steel belted radial. Yes ☒ No ☐
- b. Load range H (16 PLY). Yes ☒ No ☐
- c. Michelin XZY3, Good Year G164, or approved equal. Yes ☒ No ☐
- d. Tire manufacturer. Bridgestone

If different from above:

- a. Tire size. Same
- b. Tire load range. Same
- c. Tire model. M770 - CURRENTLY ON MARKS DEFINED NCDOT.

28. Lighting:

- a. Factory installed daytime running lights. Yes ☒ No ☐
- b. The standard headlight switch shall operate all lights in the normal mode at full voltage. Yes ☒ No ☐
- c. Front and rear Class "A" directional signals. Yes ☒ No ☐
- d. Minimum, five cab marker lights. Yes ☒ No ☐
- e. Hazard flashers. Yes ☒ No ☐
- f. All lighting to be of the type approved by the N.C. Division of Motor Vehicles. Yes ☒ No ☐
- g. All bulbs shall be shock mounted. Yes ☒ No ☐
- h. Pre-Trip exterior light inspection switch: Engaging light inspection switch will sequentially flash all exterior vehicle lights, except back up lights while operator completes safety inspection. Yes ☒ No ☐

29. Front Bumper:

- a. Delete front bumper.

Yes ☒ No ☐

30. Electrical Wiring:

- a. All wiring from the front to rear of chassis shall be encased in a loom, molded plastic or pre-approved equal protective covering.

Yes ☒ No ☐

- b. Wiring to be attached to inner side rails with rubber covered fasteners at approximately 20" intervals.

Yes ☒ No ☐

- c. Wiring, including a weatherproof connector shall be provided at the hood-hinge area for connection of snow plow lights.

Yes ☒ No ☐

- d. The connector shall include parking light and turn signal functions.

Yes ☒ No ☐

- e. A body builder harness, including a weather proof connector shall be provided at the back of the cab.

Yes ☒ No ☐

31. Auxiliary Power Switches: Shall have six (6) factory installed, dash mounted auxiliary power switches with wiring provided to the back of the cab for the following functions:

- a. Snowplow light selector switch to allow independent selection of the chassis headlights or the snow plow lights.

Yes ☒ No ☐

- b. Emergency light switch, illuminated, on/off type, battery source, 20 AMP minimum.

Yes ☒ No ☐

- c. Spreader light switch illuminated, on/off type, ignition source, 20 AMP minimum.

Yes ☒ No ☐

- d. Two (2) Illuminated, on/off type, ignition source, 20 AMP minimum for future use.

Yes ☒ No ☐

- e. One (1) Illuminated, on/off type, battery source, 20 AMP minimum for future use.

Yes ☒ No ☐

32. Cab: Bidder may be required to demonstrate the cab during the evaluation process.

- | | | | | | |
|----|--|-----|-------------------------------------|----|--------------------------|
| a. | Shall have factory installed air-conditioning. | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| b. | Air conditioning system shall be supplied complete with protection & diagnostics system to monitor and shut down the A/C compressor in the event of a refrigerant system leak. | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| c. | Shall have electronic cruise control. | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| d. | Shall have air ride cab. | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| e. | Shall have exterior and interior grab handle handholds. | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| f. | Shall have steps for high cab applications for both driver and passenger side. | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| g. | Shall have tinted safety glass throughout including windshield. | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| h. | Driver and passenger seats shall be air ride and adjustable up, down, forward, back and tilt. (National Cush-n-Aire or pre-approved equal). | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| i. | Both seats shall be high-back, each with lap and shoulder seatbelts. | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| j. | Shall have 12V power supply outlet. | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| k. | Shall have fresh air heater and defroster with single shut-off valve for water line to heater. | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| l. | Shall have door locks, right and left padded sun visor, drivers side arm rest, map pocket and floor mat. | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| m. | Shall have AM/FM radio, shielded to eliminate interference from 2-way radio. | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| n. | Shall have a fixed grill with radiator rock guard and tilt hood. | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| o. | Tilt and telescoping steering wheel. | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |
| p. | Electronic speedometer with auxiliary in-cab tap point to interface with current electronic spreader controls with pulse width modulated signal. | Yes | <input checked="" type="checkbox"/> | No | <input type="checkbox"/> |

q. Cab access and function must be ergonomically designed to accommodate 95% percentile of drivers ranging from a 4 Ft. 8 In., 110 Lb. driver to a 6 Ft. 5 In., 375 Lb. driver. Yes ☒ No ☐

r. The seat belt webbing at each crew member location shall be a highly visible bright orange color. Yes ☒ No ☐

33. Mirrors:

a. Left and right west coast type with approximately 7"x17" heads. Yes ☒ No ☐

b. Both west coast mirrors heated. Yes ☒ No ☐

c. Left side to have two (2) 8" diameter convex mirrors, one each mounted on upper and lower arms of mirror bracket. Yes ☒ No ☐

d. Right side mirror to be motorized. Yes ☒ No ☐

e. Right side mirror to have one (1) 8" diameter convex mirror mounted on lower mirror arm. Yes ☒ No ☐

f. All three (3) convex mirrors shall be ball adjustable. Yes ☒ No ☐

g. Right side, adjustable fender mounted mirror. Yes ☒ No ☐

34. Horn(s):

a. Dual, electric and air horn per SAE Standard. Yes ☒ No ☐

35. Power Steering:

a. Power steering, designed and intended for the tires, axles and GVWR offered. Yes ☒ No ☐

36. Safety:

- a. Vehicles shall include the necessary safety features to meet the following applicable requirements of the Federal Motor Vehicles Safety Standards and shall conform with Motor Carrier Safety Regulations #399.203. Yes ☒ No ☐
- b. The vehicle to be furnished with all applicable equipment and accessories as required by the Occupational Safety and Health Act of both the United States and the State of North Carolina, and shall comply with all regulations, rules, standards and interpretations lawfully adopted there under. Yes ☒ No ☐
- c. Vehicle cab noise at ear level of the seated operator, with windows open shall not exceed OSHA requirements in 29 CFR 1910.95 for 8-hour operating exposure when measured on the "A" scale of a standard sound meter. Ear plugs or other personal protective devices are not acceptable to comply with this requirement. Yes ☒ No ☐
- d. OSHA requirements on the opening date of the IFB shall apply, regardless of the date of equipment manufactured. Yes ☒ No ☐

37. Fire Extinguisher:

- a. Shall be ABC type, rechargeable and mounted in accordance with NFPA512. Yes ☒ No ☐
- b. Unit shall have a UL rating of 10BC. Yes ☒ No ☐

38. Federal Inspection Sticker:

- a. All units shall be delivered with a completed 12 month Federal Highway Safety Inspection sticker properly affixed. Yes ☒ No ☐

BIDDER: Transource Inc

QUESTIONNAIRE

THE FOLLOWING MUST BE FILLED IN BY THE BIDDER

SERVICE

Names, addresses and telephone numbers of representatives who will render services under this contract (Use additional sheets if necessary):

Name	<u>Kevin Bowers - contact</u>	Phone	<u>919-782-8785</u>
Address	<u>8808 Midway West Rd</u>	Fax	<u>919-571-1197</u>
City, State, Zip	<u>Raleigh, NC 27617</u>	Email	<u>Kevin.bowers@bowers.com</u>

Name		Phone	
Address		Fax	
City, State, Zip		Email	

Name		Phone	
Address		Fax	
City, State, Zip		Email	

Name		Phone	
Address		Fax	
City, State, Zip		Email	

DISTRIBUTION

Number of distribution points from which contract will be serviced: 6
 (Use additional sheets if necessary)

Distribution points location (City & State):			
1	<u>Raleigh NC</u>	8	<u>Charlotte, NC</u>
2	<u>Rocky Mt, NC</u>	9	
3	<u>Fayetteville, NC</u>	10	
4	<u>Colfax, NC</u>	11	
5	<u>Salisbury, NC</u>	12	
6	<u>Hickory, NC</u>	13	
7	<u>Rocky PT, NC</u>	14	

BIDDER: TRANSOURCE, Inc.

NC Supplier Contact Form

Already Vendor

Company Information	
Company Name	<i>TRANSOURCE, Inc.</i>
Address	<i>8808 Midway West Rd</i>
City, State, Zip Code	<i>Raleigh, NC 27617</i>
Company Phone	<i>919-782-8785</i>
Company Fax	<i>919-571-1197</i>
Description of Products Sold	<i>Mack, Volvo, Hino, Isuzu, UD Trucks - SALS, PARTS, Service</i>
Does your company utilize fulfillment partners/channel partners (dealers, distributors, resellers, etc.)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Customer Service Phone Number	<i>919-782-8785</i>
Ariba Network ID (if applicable)	<i>10371-C</i>
Dun & Bradstreet Number	
Website URL (if applicable)	<i>www.transourcetrucks.com</i>
Business Contact – Person who understands NC relationships and who can serve as a project manager	
First and Last Name	<i>Rob Shaw</i>
Job Title	<i>Sales Manager</i>
Phone Number	<i>919-782-8785</i>
Fax Number	<i>919-571-1197</i>
E-Mail Address	<i>rob.shaw@tsource.com</i>
Address (if different from above)	
Technical Contact – (If different from above) – Person within your organization who can assist with the creation of an electronic product catalog for your contract line items	
First and Last Name	
Job Title	
Phone Number	
Fax Number	
E-Mail Address	
Address (if different from above)	
Corporate eCommerce Contact – (If different from above) – Person within your organization who best understands the company eCommerce initiatives and will communicate these initiatives to the organization	
First and Last Name	
Job Title	
Phone Number	
Fax Number	
E-Mail Address	
Address (if different from above)	

Contract Addendum:

8/25/2014	New Contract Administrator	